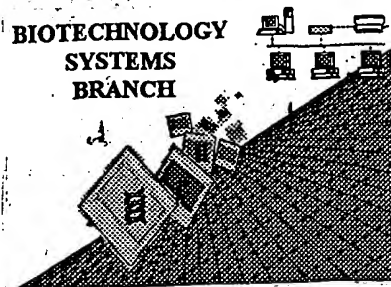


2500/0280

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/963,827

Source: OIP E

Date Processed by STIC: 10/10/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/963,827
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,827

DATE: 10/10/2001
TIME: 14:17:33

Input Set : A:\ES.txt
Output Set: N:\CRF3\10102001\I963827.raw

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Sullenger, Bruce A.
W--> 2 <120> TITLE OF INVENTION: RNA APTAMERS AND METHODS FOR IDENTIFYING THE
W--> 3 <130> FILE REFERENCE: 180/124/2 <150> 60/235,654 <151> 2000-09-26 <160> 227
W--> 4 <140> CURRENT APPLICATION NUMBER: US/09/963,827
W--> 0 <160> NUMBER OF SEQ ID NOS:
4 <170> SOFTWARE: PatentIn version 3.1 <210> 1 <211> 96 <212> RNA <213>

ERRORED SEQUENCES

see next page

09/963,827 2

insert a hard return after each response

Rusconi, Christopher P. ↓ SEQUENCE LISTING ↓ <110> Sullenger, Bruce A. ↓
SAME, <130> 180/124/2 ↑ <150> 60/235,654, <151> 2000-09-26 ↑ <160> 227 ↑
<170> PatentIn version 3.1 ↑ <210> 1 ↑ <211> 96 ↑ <212> RNA ↑ <213>
oligonucleotide ↑ <400> 1
gggagagagg aagagggau ggccgccagu gggaagcuau acccaacgcc ccagccccag 60
agcauaaccc agaggucgau aguacuggau cccccc 96

*globally
invalid
response* → - see item 10 on Erra Summary Sheet

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

sample of submitted file - major format errors

Please contact Robert Wax at 703-306-4119
or 703-308-4216
for assistance.

FYI Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,827

DATE: 10/10/2001

TIME: 14:17:34

Input Set : A:\ES.txt

Output Set: N:\CRF3\10102001\I963827.raw

L:2 M:283 W: Missing Blank Line separator, <120> field identifier
L:3 M:283 W: Missing Blank Line separator, <130> field identifier
L:4 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.
L:0 M:282 W: Numeric Field Identifier Missing, <160> is required.
L:5 M:282 W: Numeric Field Identifier Missing, <210> is required.
L:5 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:5 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:5 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:5 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:5 M:283 W: Missing Blank Line separator, <400> field identifier
L:68 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:68 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:68 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:95 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:95 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:95 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:158 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:158 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:158 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:535 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:537 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:537 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:537 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:596 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:596 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:596 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:619 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:619 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:619 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:658 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:658 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:658 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:685 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:685 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:685 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:1037 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:1037 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:1037 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (10)